

THREE BROOKS POND

The lake which sits within the Three Brooks Nature Reserve in Bradley Stoke, Gloucestershire regularly flooded due to its condition causing both a public concern for wildlife and loss of public amenity. Land & Water tendered for the works to dredge circa 4,000m³ of silt from the lake to be placed in a designated location approximately 600 meters north of the lake behind Bradley Stoke community School, with some of the material being used to reform banks around the lake.

The lake was in the ward of Three Brooks Nature conservation Group who were keen to understand the works and any disruption or potential environmental hazards as well as enhancements derived from it. We liaised with the group throughout the works to mitigate concerns as well as public liaison and footpath closures to dog walking and leisure activity to maintain safety protocols.

The lake was drained to access the material on the lakebed. Prior to work starting dissolved oxygen monitoring was undertaken and a fish removal operation carried out to minimise environmental risk. Vegetation was removed to facilitate plant movement and a sub-base ground protection installed, later used to improve pathways. Environmental mitigation was also installed at the disposal location including drainage channels and silt screens.

Land & Water elected to use its own low ground pressure (amphibious) long reach excavator to dredge or move the material within the lake (minimising damage concerns) to within the reach of another of our specialist long reach excavators situated on the banks. Material was then loaded into waiting trucks and transported to the disposal area.

Care was taken by our experienced operators to monitor the material being loaded to allow any amphibian life to escape and to reduce water transferred from the lake to the nearby receptor site.

Trash screens were installed to prevent future deposits of debris into the lake from Hortham Brook which was upstream of the weir at the northern edge of the lake. Checking penstock-controlled weir bypasses and culvert for blockages also formed part of the scope of works.

Find us on the internet at
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Project Particulars

Client: South Gloucestershire Council
December 2020 - February 2021



PROJECT
VALUE: £177,000